

Solve Problems Using Quadratic Equations

Date: _____

Application - Word Problems

A. Width of a Frame, Path or Parking Lot

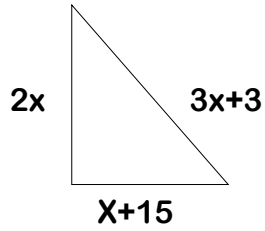
EX: A rectangular supermarket, 90m by 60m is to be built on a city block having an area of $9000m^2$. There is to be a uniform strip around the building for parking. How wide is the strip?

B. Consecutive Numbers

EX: The sum of the squares of two consecutive even integers is 452. Find the integers.

C. Right Triangles

EX: Given the diagram, find x and the lengths of each side.



D. Perimeter and Area

EX: The perimeter of a rectangle is 24m and its area is $20m^2$. Find the length and width.